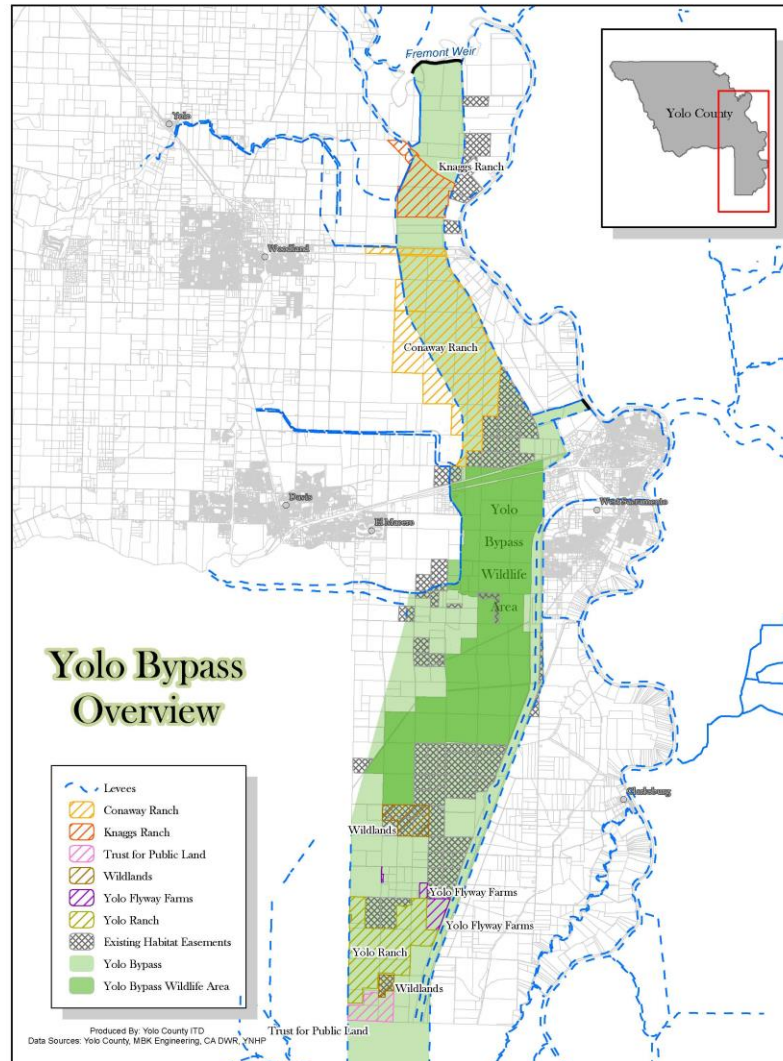


An Integrated Vision for the Yolo Bypass

Central Valley Flood Protection Board Conservation Strategy
Implementation Advisory Committee Meeting
October 25, 2018

Andrea Buckley, CVFPB
Doug Brown, Douglas Environmental
Ric Reinhardt, MBK Engineers

Yolo Bypass Overview



2009 Crop Map



Agriculture Important to Counties



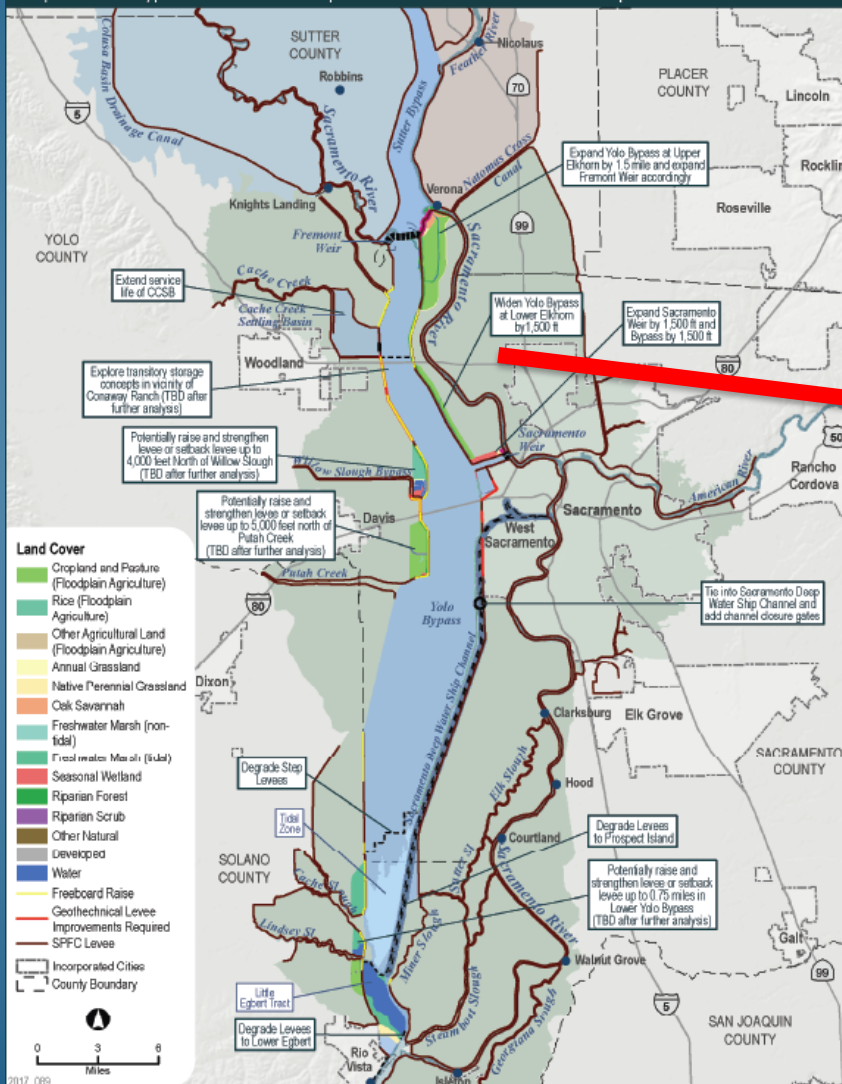
Flood Control and Restoration Issues Driving Changes in Yolo Bypass

- Multiple Bypass Expansions Identified in 2017 CVFPP
- Four Major Flood/Restoration Projects Proposed in Yolo Bypass
- Need for Long-Term Vegetation Management



2017 CVFPP Yolo Bypass Expansions

Map 3-3. Yolo Bypass Multi-Benefit Improvements State Recommended Option



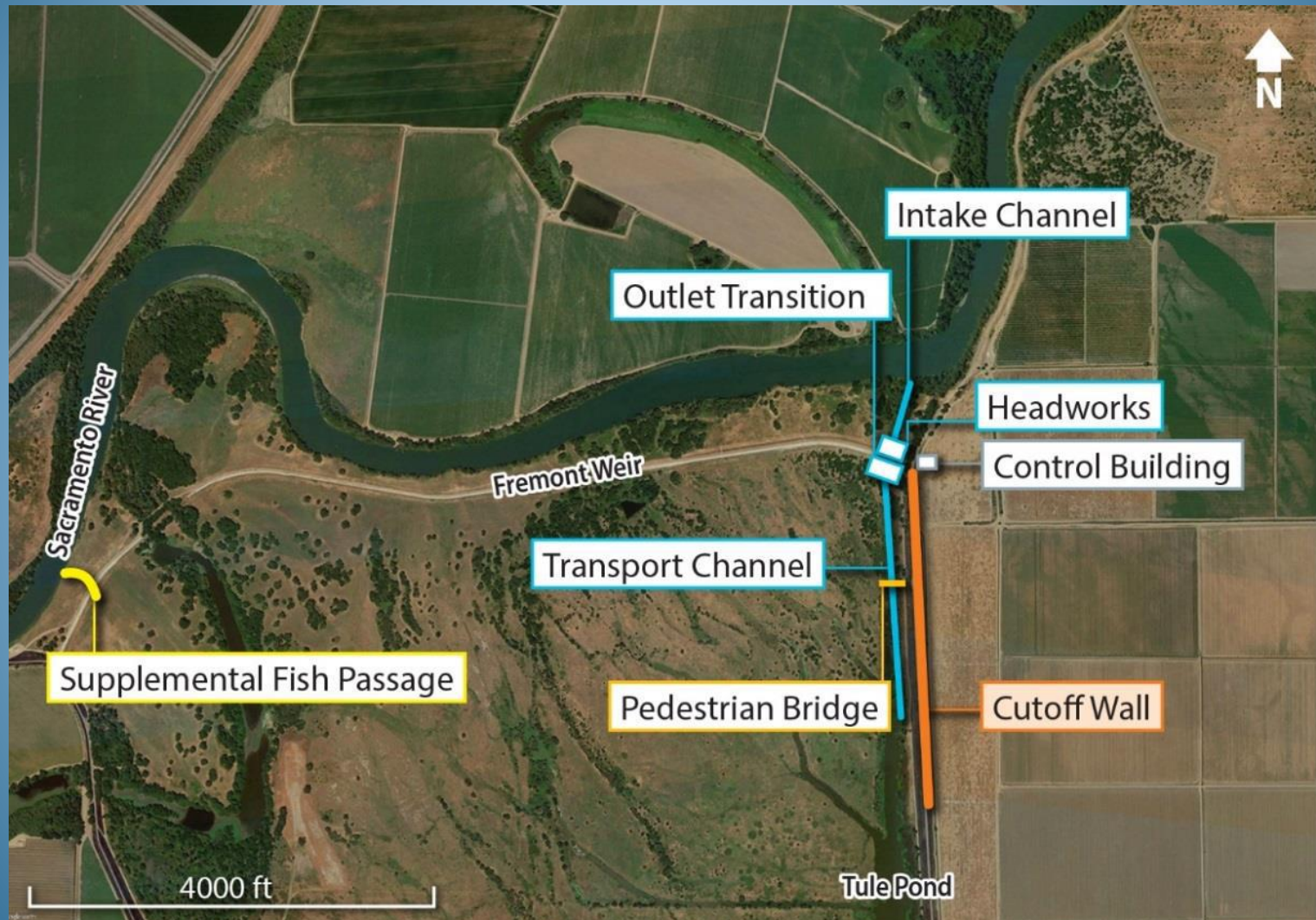
Proposed Flood/Restoration Projects

Four Major Projects Being Pursued in Region

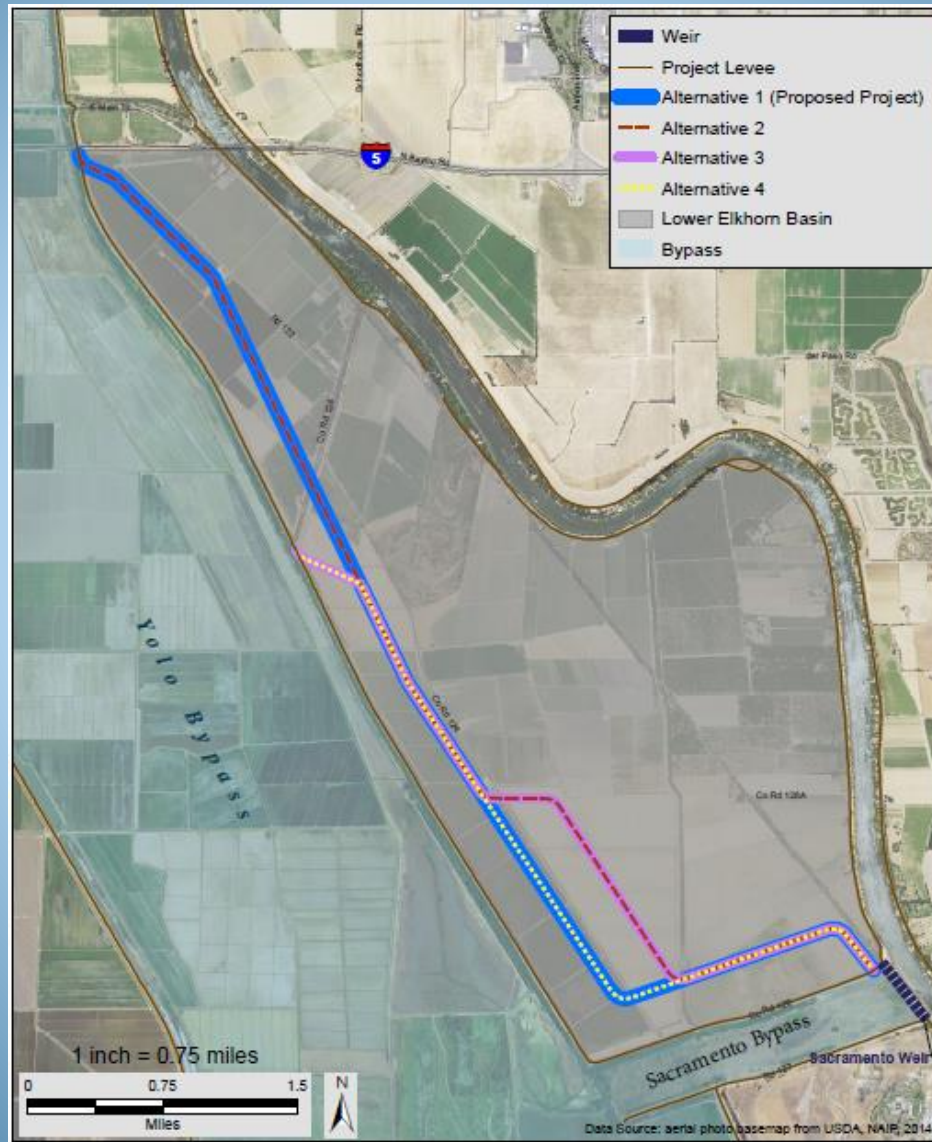
1. Yolo Bypass Salmonid Habitat Restoration and Fish Passage
2. Lower Elkhorn Basin Levee Setback
3. Lookout Slough Restoration
4. Little Egbert Flood Control and Restoration



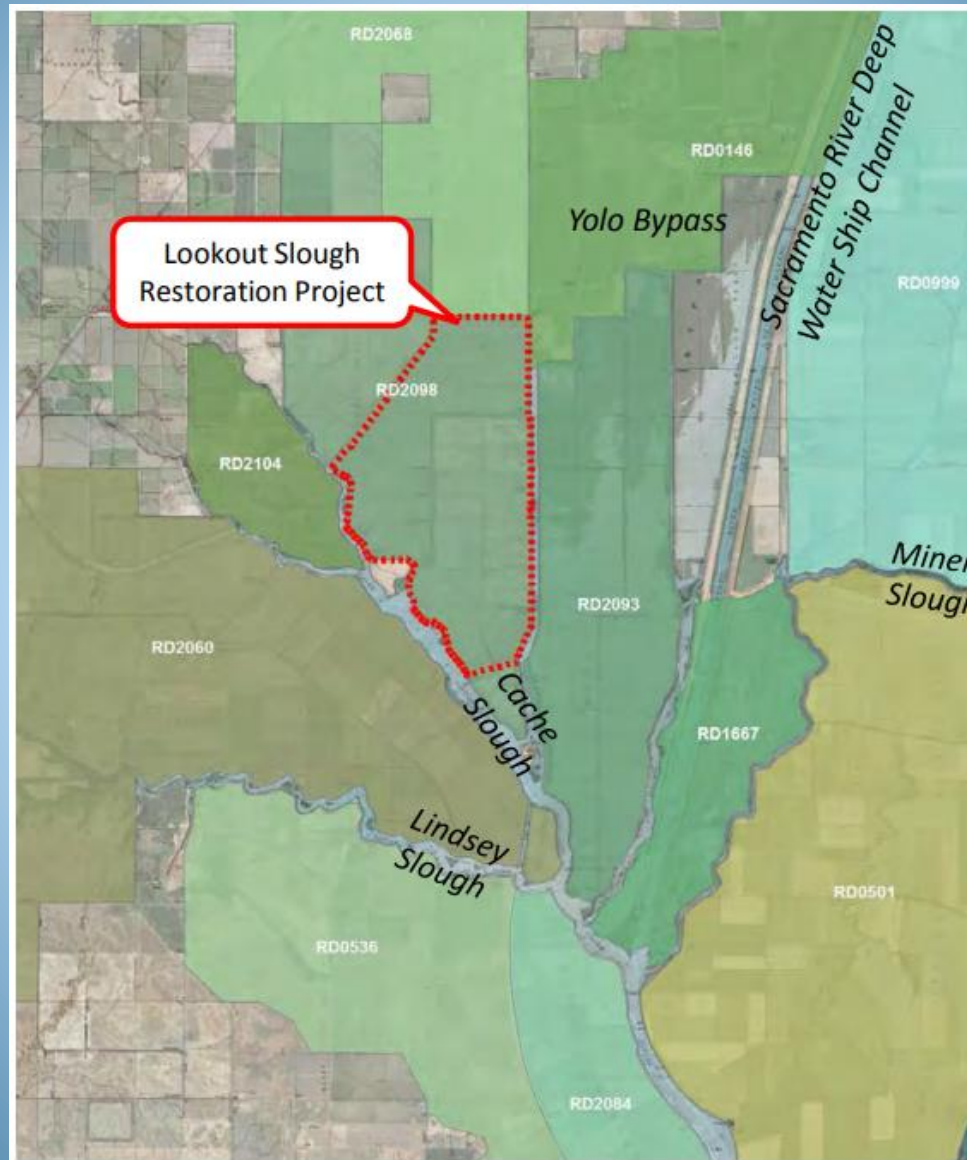
Salmonid Fish Passage Project



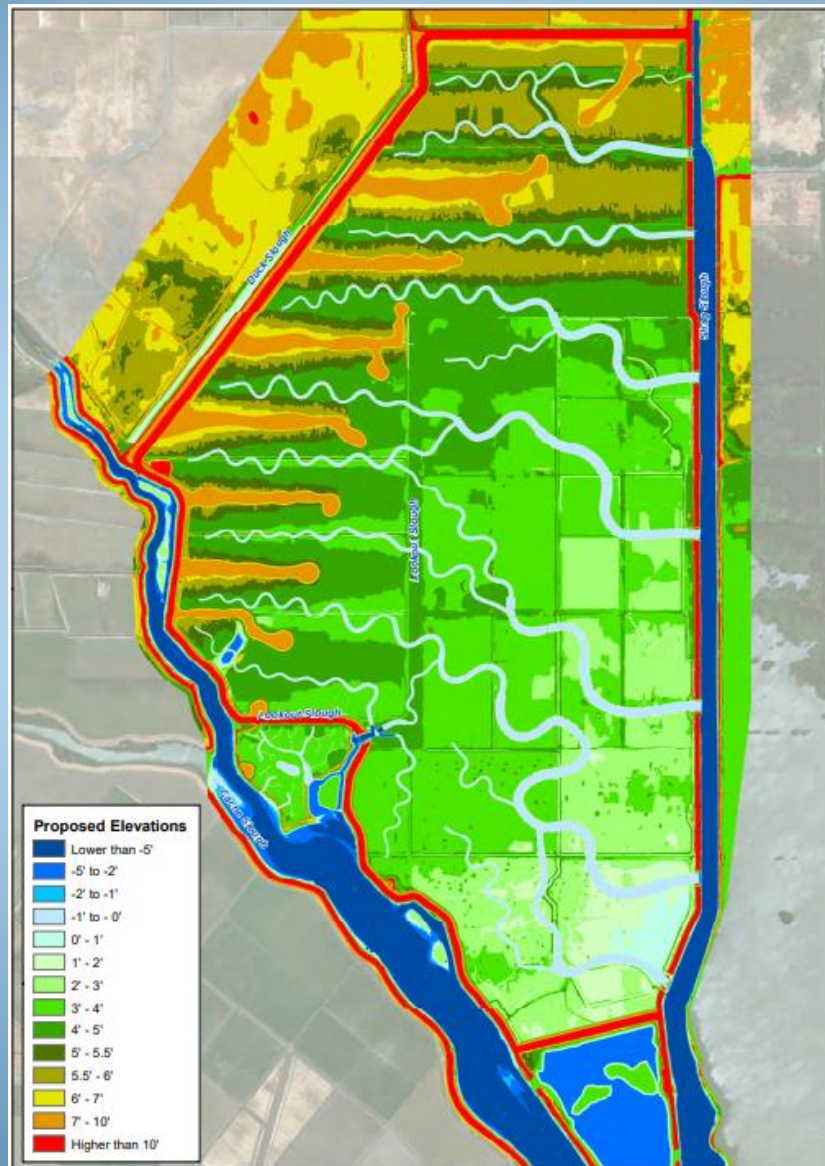
Lower Elkhorn Levee Setback Project



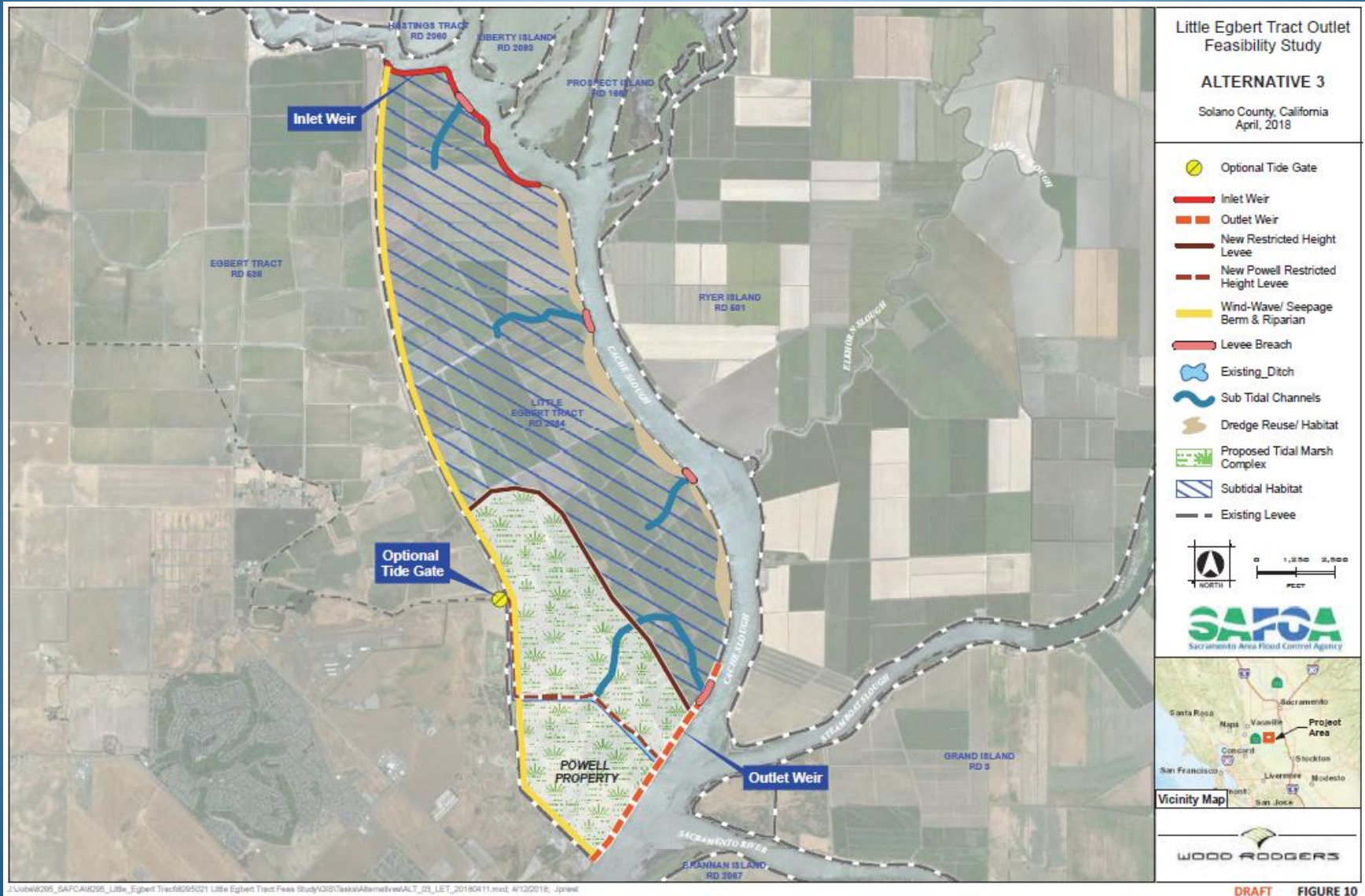
Lookout Slough Restoration Project



Lookout Slough Restoration Project



Little Egbert Restoration Project

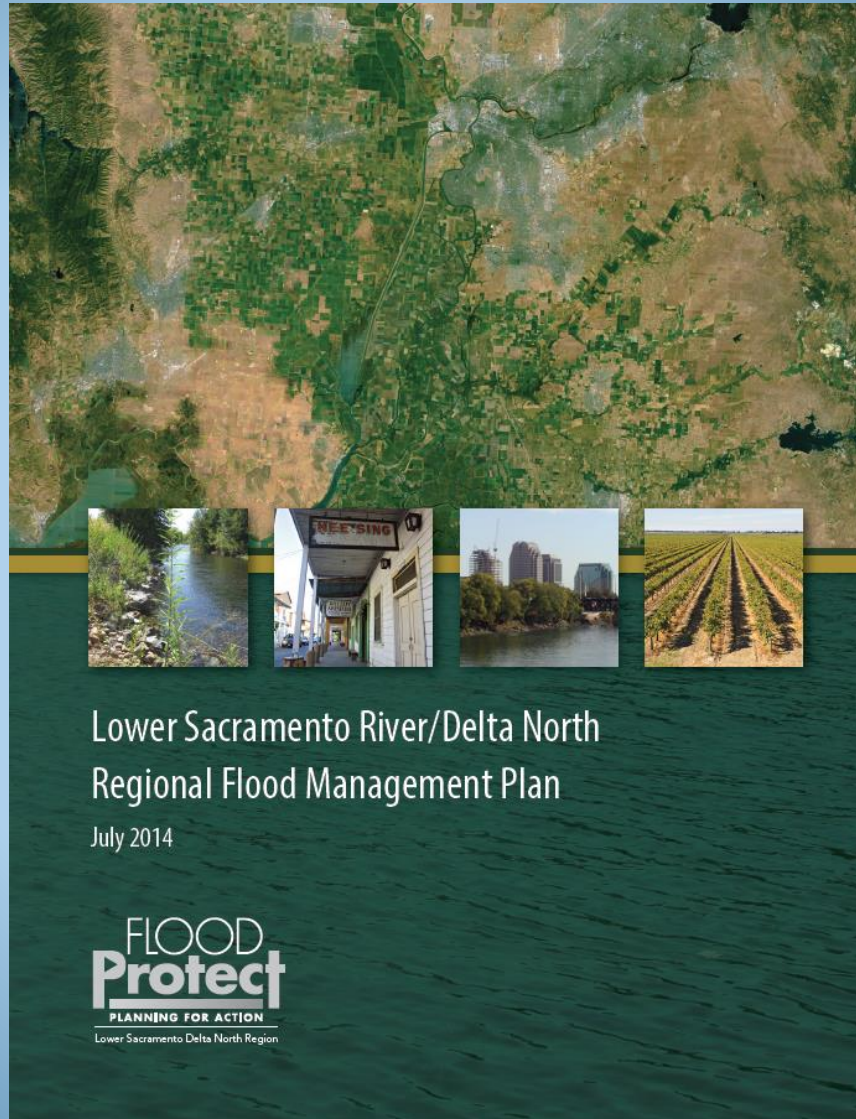


Existing Resource Challenges

1. Sustainability of Agricultural Economy
2. Water Infrastructure Impacts
3. Complex Permitting (e.g., 408, 404, 401, 1600, 2081, 106, etc.)
4. Water Quality Constraints
5. Long-Term Operations and Maintenance
6. Complexity of Multi-Objective Project Implementation
7. Project Funding



Lower Sac/Delta North RFMP 2014



LS/DN RFMP Corridor Management Framework (CMF) Feb. 2015

- CMF Formed Basis for Collaborative, Constructive, and Transparent Partnership Between Federal, State, and Local Agencies
- Focused on Integrating Flood Risk Reduction, Enhanced Ecosystem Function, and Agricultural Sustainability



Yolo Bypass/Cache Slough Partnership

- Partnership Formed in 2015
- 15 Agencies Include: USBR, USFWS, NMFS, USACE, CNRA, CDFW, DWR, CVFPB, State Water Boards, and LS/DN Region
- MOU Executed in May 2016



Yolo Bypass/Cache Slough Partnership

Primary Responsibilities Include:

- Confirm High-Level Support for Project Delivery
 - Assist in Interpreting Existing Policy
- Serve as Decision Maker (Individually or Collectively)



Yolo Bypass/Cache Slough Partnership

Developing Road Map with 6 Objectives

1. Reduction of Flood Risk
2. Restoration of Critical Habitat
3. Improved Sustainability of the Agricultural Economy
4. Improved Water Quality
5. Increased Water Supply Reliability
6. Increased Recreational Opportunities



Partnership Road Map Fundamental Approach

Better Integrating and Leveraging Existing Interagency Interaction in the Region

1. Promote the Discussion, Prioritization, and Resolution of Policy and Other Issues Critical to the Success of Regional Water Management and Habitat Restoration Projects
2. Improve Collaboration, Synchronization of Efforts, and Enhanced Outcomes of Regional Water Management Planning and Project Implementation Efforts
3. Serve as a Model of Public Agency Cooperation and Achievement



Partnership Governance Structure

The Partnership

Forum to confirm high-level support for program delivery
and support the development of new policy

Program-Level Interagency Collaborative

Venue for problem solving and shared advocacy

Project

Project

Project

Project

Project



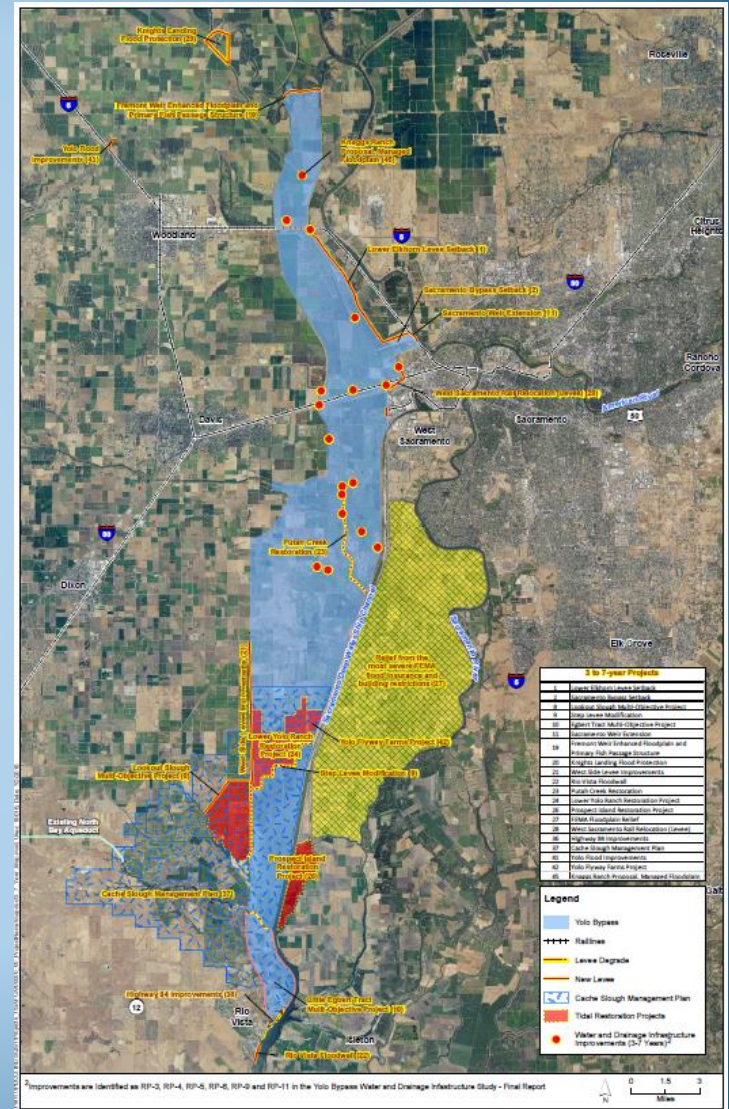
1 to 3 Year Projects

- Bryte Landfill Remediation
- Agricultural Crossing Improvements
- Wallace Weir Improvements
- Fremont Weir Adult Fish Passage
- Lisbon Weir Modifications
- Huff's Corner



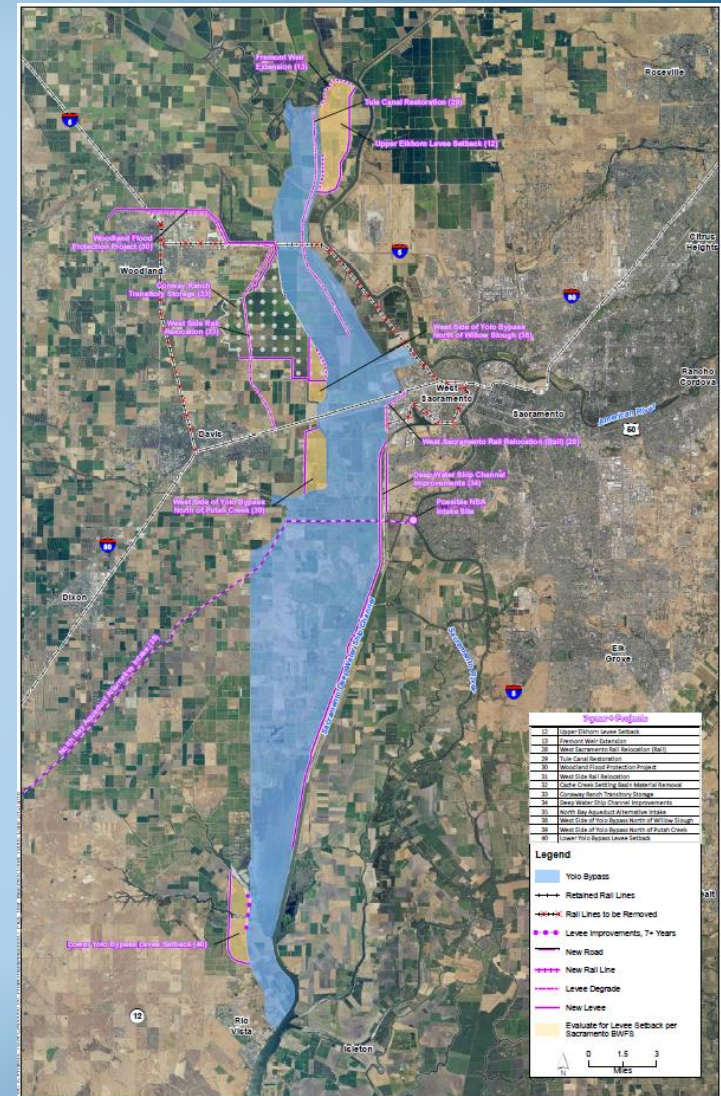
3 to 7 Year Projects

- Lower Elkhorn Levee Setback
- Sacramento Bypass Setback
- Lookout Slough Multi-Objective Project
- Step Levee Modification
- Egbert Tract Multi-Objective Project
- Sacramento Weir Extension
- Fremont Weir Operable Fish Gate
- Knights Landing Flood Protection
- West Side Levee Improvements
- Rio Vista Floodwall
- Putah Creek Restoration
- Lower Yolo Ranch Restoration Project
- Prospect Island Restoration Project
- FEMA Floodplain Relief
- West Sacramento Rail Relocation
- Highway 84 Improvements
- Cache Slough Management Plan
- Yolo Flood Improvements
- Yolo Flyway Farms Project
- Knaggs Ranch Managed Floodplain



7 Plus Year Projects

- Upper Elkhorn Levee Setback
- Fremont Weir Extension
- West Sacramento Rail Relocation
- Tule Canal Restoration
- Woodland Flood Protection Project
- West Side Rail Relocation
- Cache Creek Settling Basin Material Removal
- Conaway Ranch Transitory Storage
- Deep Water Ship Channel Improvements
- North Bay Aqueduct Alternative Intake
- West Side of Yolo Bypass North of Willow Slough
- West Side of Yolo Bypass North of Putah Creek
- Lower Yolo Bypass Levee Setback
- Elk Slough Flood and Habitat Improvements



Yolo Bypass/Cache Slough Partnership

Program Management Action Plans

1. Sustainability of Agricultural Economy
2. Water Infrastructure Assurances
3. Programmatic 408
4. Improved Water Quality
5. Multi-Objective Project Development
6. Joint Program Advocacy
7. Operations and Maintenance Sustainability



Increased Recreational Opportunities



Increased Habitat Opportunities

Roadmap Implementation Provides Opportunities to Substantially Achieve Conservation Strategy Habitat Objectives for:

1. Inundated Floodplain Habitat
2. Riverine Geomorphic Processes
3. Shaded Riverine Aquatic Habitat
4. Riparian Habitat
5. Marsh and Other Wetland Habitat
6. Fish Barrier Removal



Next Steps

Continue Partner Engagement to:

1. Further Develop Road Map and Action Plans
2. Reaffirm Support for Moving Forward
3. Continue Progress in Project Implementation

